Doc code: IDS Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

Mation Disclosure Statement (IDS) Filed

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		10588126	
INFORMATION DISCLOSURE	Filing Date		2006-08-23	
	First Named Inventor Yehud		ıdit NATAN	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1654	
(Not for Submission under or of it not)	Examiner Name	Jeffre	ey E. RUSSEL	
	Attorney Docket Number		27586U	

	Remove					
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	3074247		1963-01-22	POLK	
	2	3347745		1967-10-17	RINFRET, et al.	
	3	4117881		1978-10-03	WILLIAMS, et al.	
	4	4480682		1984-11-06	KANETA, et al.	
	5	4620908		1986-11-04	VAN DUZER	
	6	4857319		1989-08-15	CROWE, et al.	
	7	5131850	A	1992-07-21	BROCKBANK	
	8	5418130	A	1995-05-23	PLATZ, et al.	

Application Number		10588126		
Filing Date		2006-08-23		
First Named Inventor	Yehu	Yehudit NATAN		
Art Unit		1654		
Examiner Name	Jeffre	y E. RUSSEL		
Attorney Docket Numb	er	27586U		

9	5587490	A	1996-12-24	GOODRICH, JR., et al.
10	5827741	А	1998-10-27	BEATTIE, et al.
11	5843780	А	1998-12-01	THOMSON
12	5863715	А	1999-01-26	RAJOTTE, et al.
13	5955257	А	1999-09-21	BURGER, et al.
14	6007978	А	1999-12-28	GOODRICH, JR., et al.
15	6146890	А	2000-11-14	DANON
16	6319914	B1	2001-11-20	SIMPKINS, et al.
17	6337205	B1	2002-01-08	WISNIEWSKI
18	6453683	B1	2002-09-24	WISNIEWSKI, et al.
19	6482585	B2	2002-11-19	DOTTORI

Application Number		10588126	
Filing Date		2006-08-23	
First Named Inventor	Yehud	dit NATAN	
Art Unit		1654	
Examiner Name	Jeffre	y E. RUSSEL	
Attorney Docket Numb	er	27586U	

	20	6488033		2002-12-03	CERUNDOLO		
	21	6740484	B1	2004-05-25	KHIRABADI, et al.		
	22	6887704	B2	2005-05-03	PELED, et al.		
If you wis	h to add	additional U.S. Paten	t citatio	n information pl	ease click the Add button.		Add
			U.S.P	ATENT APPLIC	CATION PUBLICATIONS		Remove
Examiner Initial*	Cito No. Publication K		Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Releva	Columns,Lines where nt Passages or Relevant s Appear
	1	1 20030068416		2003-04-10	BURGESS, et al.		
	2	20040006999	A1	2004-01-15	BROWN, et al.		
	3	20040067157	A1	2004-04-08	MACPHEE, et al.		
	4	20040129003	A1	2004-07-08	VOUTE, et al.		
	5 20040191754		A1	2004-09-30	MEIR, et al.		
	6 20040197310		A1	2004-10-07	SANBERG, et al.		

Application Number		10588126		
Filing Date		2006-08-23		
First Named Inventor	Yehud	dit NATAN		
Art Unit		1654		
Examiner Name	Jeffre	y E. RUSSEL		
Attorney Docket Number		27586U		

	7	20050008623	A1	2005-01	-13	BECHETOILLE	E, et al.		
	8	20050020524	A1	2005-01	-27	BOYD			
	9	20050042754	A1	2005-02	2-24	MIYAZAKI, et al.			
	10	20050059152	A1	2005-03-17		TANAVDE, et al.			
	11	20050095228	A1	2005-05	5-05	FRASER, et al.			
	12	20050118712	A1	2005-06-02		TSAI, et al.			
	13	20050142118	A1	2005-06	i-30	WERNET			
	14	20060035383	A1	2006-02	?-16	HO, et al.			
	15	20060057555	A1	2006-03	3-16	DAMARI, et al.			
If you wis	If you wish to add additional U.S. Published Application				citation	n information p	lease click the Add	d button	. Add
				FOREIG	SN PAT	ENT DOCUM	ENTS		Remove
Examiner Initial*		Foreign Document Number³	Country Code ²		Kind Code ⁴	Publication Date	Name of Patentee Applicant of cited Document	e or	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear

Application Number		10588126		
Filing Date		2006-08-23		
First Named Inventor	Yehu	dit NATAN		
Art Unit		1654		
Examiner Name	Jeffre	y E. RUSSEL		
Attorney Docket Numb	er	27586U		

_		_				T	T	
	1	100 56 181	DE	C1	2002-03-07	HIBERNA AG	Attached: Full English Machine Translation	×
	2	0 664 080	EP	A1	1995-07-26	KABUSHIKI KAISHA SEITAI KAGAKU KENKYUSHO		
	3	1 131 998	EP	A1	2001-09-12	DIRECTOR-GENERAL OF NATIONAL INSTITUTE OF		
	4	1 471 140	EP	A1	2004-10-27	ASAHI TECHNO GLASS CORPORATION		
	5	1 535 514	EP	A1	2005-06-01	MG Pharmacy Inc.; Komeda, Masashi		
	6	1 627 565	EP	A1	2006-02-22	Consejo Superior de Investigaciones Cientificas		
	7	2000-189155	JP	A	2000-07-11	LIVESTOCK IMPROVEMENT ASSOCIATION OF JAPAN INC	Separately Attached: English Abstract	×
	8	1806692	SU	A1	1993-04-07	UK NII PLEMENNOMU DELU V ZHIVO	Separately Attached: No Abstract Available	
	9	91/06213	WO	A1	1991-05-16	CRYOLIFE, INC.		
	10	91/16060	WO	A1	1991-10-31	CRYOPHARM CORPORATION		
	11	97/35472	WO	A1	1997-10-02	ADVANCED REPRODUCTION TECHNOLOGIES, INC.		

Application Number		10588126		
Filing Date		2006-08-23		
First Named Inventor	Yehu	dit NATAN		
Art Unit		1654		
Examiner Name	Jeffre	y E. RUSSEL		
Attorney Docket Numb	er	27586U		

12	98/10231	wo	A1	1998-03-12	INTERFACE MULTIGRAD TECHNOLGY LTD.	
13	98/46072	wo	A1	1998-10-22	BIOSTORE NEW ZEALAND LIMITED	
14	00/29551	wo	A2	2000-05-25	DAVIES, Alison	
15	01/23532	wo	A1	2001-04-05	TSAKAS, Spyros; LINARDOS, Nikolaos	
16	01/45503	wo	A2	2001-06-28	REGENTS OF THE UNIVERSITY OF MINNESOTA	
17	01/50852	wo	A2	2001-07-19	INTEGRATED BIOSYSTEMS, INC.	
18	01/87062	wo	A2	2001-11-22	THE GENERAL HOSPITAL CORPORATION; GAMETE	
19	02/32225	wo	A2	2002-04-25	ORGAN RECOVERY SYSTEMS	
20	02/076206	wo	A2	2002-10-03	UNIVERSITY OF OTTAWA	
21	03/056919	wo	A2	2003-07-17	I.M.T. INTERFACE MULTIGRAD TECHNOLOGY LTD	
22	2004/009138	wo	A2	2004-01-29	CLEARANT, INC.	

Application Number		10588126	
Filing Date		2006-08-23	
First Named Inventor	Yehu	Yehudit NATAN	
Art Unit		1654	
Examiner Name	Jeffre	y E. RUSSEL	
Attorney Docket Number		27586U	

	23	2004/055456	WO	A1	2004-07-01	INTEGRATED BIOSYSTEMS, INC.		
	24	2004/098285	wo	A2	2004-11-18	CELLARTIS AB		
	25	2005/032251	wo	A1	2005-04-14	I.M.T. INTERFACE MULTIGRAD TECHNOLOGY LTD.		
	26	2005/056755	WO	A2	2005-06-23	CATHOLIC HEALTHCARE WEST		
	27	2005/072523	WO	A2	2005-08-11	I.M.T. INTERFACE MULTIGRAD TECHNOLOGY LTD.		
	28	2005/072790	WO	A1	2005-08-11	I.M.T. INTERFACE MULTIGRAD TECHNOLOGY LTD.		
	29	2006/016372	WO	A1	2006-02-16	I.M.T. INTERFACE MULTIGRAD TECHNOLOGY LTD.		
If you wis	h to a	dd additional Foreign P	atent Document	citation	information p	lease click the Add buttor	Add	
			NON-PATE	NT LITE	RATURE DO	CUMENTS	Remove	
Examiner Initials*							T 5	
	1	CSÖNGE, et al., "Banking of osteochondral allografts, Part II. Preservation of Chondrocyte Viability During Long-Term Storage", Cell and Tissue Banking, vol. 3, pp. 161-168, (2002). XP-002313332						
	2	GAO, et al., "Development of a Directional Solidification Device for Cell Cryopreservation", Cell Preservation Technology, vol. 1, no. 4, pp. 231-238, (2003).						

Application Number		10588126	
Filing Date		2006-08-23	
First Named Inventor	Yehudit NATAN		
Art Unit		1654	
Examiner Name	Jeffre	y E. RUSSEL	
Attorney Docket Number		27586U	

3	GOODRICH, et al., "Preservation of metabolic activity in lyophilized human erythrocytes", Proc. Natl. Acad. Sci. USA, vol. 89, pp. 967-971, (1992).	
4	HAN, et al., "Protection of osteoblastic cells from freeze/thaw cycle-induced oxidative stress by green tea polyphenol", Biotechnology Letters, vol. 27, pp. 655-660, (2005).	
5	HIGGS, et al., "Cartilage Regeneration and Repair, Where Are We?" Proceedings of the International Cartilage Repair Society's Second Symposium, (1998).	
6	JOMHA, et al., "Cryopreservation of intact human articular cartilage", Journal of Orthopaedic Research, vol. 20, pp. 1253-1255, (2002).	
7	KUSAKABE, et al., "Maintenance of genetic integrity in frozen and freeze-dried mouse spermatozoa", Proc Natl Acad Sci U S A, vol. 98, no. 24, pp. 13501-13506, (2001).	
8	KUSHIBE, et al., "Tracheal Allotransplantation Maintaining Cartilage Viability with Long-Term Cryopreserved Allografts", Ann Thorac Surg, vol. 71, pp. 1666-1669, (2001).	
9	LAPRADE, et al., "Refrigerated Osteoarticular Allografts to Treat Articular Cartilage Defects of the Femoral Condyles. A Prospective Outcomes Study", J Bone Joint Surg Am, vol. 91, pp. 805-811, (2009).	
10	LÓPEZ, et al., "Determination of Viability of Human Cartilage Allografts by a Rapid and Quantitative Method Not Requiring Cartilage Digestion", Cell Transplantation, vol. 17, pp. 859-864, (2008).	
11	MCGOVERAN, et al., "Long-Term Chondrocyte Viability in a Fresh Osteochondral Allograft", The Journal of Knee Surgery, vol. 15, no. 2, pp. 97-100, (2002).	
12	MULDREW, et al., "Localization of Freezing Injury in Articular Cartilage", Cryobiology, vol. 31, pp. 31-38, (1994).	
13	MULDREW, "Cryopreservation of Articular Cartilage", Abstracts, 33rd Annual Meeting of the Society for Cryobiology, pp. 616-617, no. 6, Indianapolis, Indiana, August 21, 1996.	
 _		

Application Number		10588126	
Filing Date		2006-08-23	
First Named Inventor	Yehudit NATAN		
Art Unit		1654	
Examiner Name	Jeffre	y E. RUSSEL	
Attorney Docket Number		27586U	

14	MULDREW, et al., "Cryobiology of Articular Cartilage: Ice Morphology and Recovery of Chondrocytes", Cryobiology, vol. 40, pp. 102-109, (2000).	
15	MULDREW, et al., "Transplantation of Articular Cartilage Following a Step-Cooling Cryopreservation Protocol", Cryobiology, vol. 43, pp. 260-267, (2001	
16	MULDREW, et al., "Chondrocyte Sensitivity to Lethal Injury Correlates with Proximity to the Cartilage Surface", Abstracts, 32nd Annual Meeting of the Orthopaedic Research Society, pp. 589, no. 136, New Orleans, Louisiana, February 1986.	
17	PEGG, et al., "Fractures in Cryopreserved Elastic Arteries", Cryobiology, vol. 34, pp. 183-192, (1997).	
18	RZEPAKOVSKY, "The Effect of Long Term Storage at -80°C on the Cell Viabillity in Cartilage Tissue", Study Report, No. LAB-0161, 3 pages, (2005).	
19	RZEPAKOVSKY, "The Effect of Long Term Storage in Liquid Nitrogen on the Cell Viabillity in Cartilage Tissue", Study Report, No. LAB-0161, 3 pages, (2006).	
20	SCHACHAR, et al., "Transplantation of Cryopreserved Osteochondral Dowel Allografts for Repair of Focal Articular Defects in an Ovine Model", The Journal of Bone and Joint Surgery, Inc., vol. 17, pp. 909-920, (1999).	
21	Dimethyl sulfoxide, SIGMA Product Information, 2 pages, December 2003.	
22	TENG, et al., "Enhancing Osteochondral Allograft Viability", Clin Orthop Relat Res, vol. 466, pp. 1804-1809, (2008).	
23	TOWNS, "Moisture content in proteins: its effects and measurement", Journal of Chromatography A, vol. 705, pp. 115-127, (1995).	
24	VAN STEENSEL, et al., "Optimization of cryopreservative procedures for human articular cartilage chondrocytes", Arch Orthop Trauma Surg, vol. 113, pp. 318-321, (1994).	

Application Number		10588126	
Filing Date		2006-08-23	
First Named Inventor	Yehudit NATAN		
Art Unit		1654	
Examiner Name	Jeffrey E. RUSSEL		
Attorney Docket Number		27586U	

	25	WILLIAMS, et al., "Prolonged Storage Effects on the Articu Bone Joint Surg Am, vol. 85, pp. 2111-2120, (2003).	lar Cartilage of Fresh Human Oste	ochondral Allografts", J			
	26	WILLIAMS, et al., "Analysis of Cartilage Tissue on a Cellular Level in Fresh Osteochondral Allograft Retrievals", Am J Sports Med, vol. 35, no. 12, pp. 2022-2032, (2007).					
	27	WILLIAMS, et al., "Controversies in Knee Surgery", Controversies in Orthopaedic Surgery, pp. 462-463, Oxford University Press, 2004.					
	28	ZOBERI, et al., "Radiosensitizing and anti-proliferative effects of resveratrol in two human cervical tumor cell lines", Cancer Letters, vol. 175, pp. 165-173, (2002).					
If you wish to add additional non-patent literature document citation information please click the Add button Add							
EXAMINER SIGNATURE							
Examiner	Examiner Signature		Date Considered				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.							